

# INTERNATIONAL SEARCH REPORT

Intern Application No  
PCT/GB 03/03781

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 E21B43/1185 F42B3/113 E21B47/12

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 E21B F42B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 413 045 A (MISZEWSKI ANTONI) 9 May 1995 (1995-05-09)  column 3, line 21 -column 4, line 47; figure 3	1-37, 40-43, 47-79, 81-84
X	GB 2 364 380 A (BAKER HUGHES INC) 23 January 2002 (2002-01-23) page 33, line 9 -page 34, line 5; figure 12	1-39,44, 47-80,85
A	US 4 870 902 A (SIMON JAMES R ET AL) 3 October 1989 (1989-10-03) the whole document	1,47
	-/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

9 February 2004

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25/02/2004

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 5 322 019 A (HYLAND CRAIG R)  21 June 1994 (1994-06-21)  column 8, line 63 -column 9, line 14;  figure 2G</p> <p>-----</p>	45,86

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